

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Euan Christopher Smith et al.

Title: A METHOD OF DRIVING A DISPLAY USING NON-NEGATIVE MATRIX  
FACTORIZATION TO DETERMINE A PAIR OF MATRICES FOR REPRESENTING  
FEATURES OF PIXEL DATA IN AN IMAGE DATA MATRIX AND DETERMINING  
WEIGHTS OF SAID FEATURES SUCH THAT A PRODUCT OF THE MATRICES  
APPROXIMATES THE IMAGE DATA MATRIX

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Examiner: Nathan Brown  
Customer No.: 21186

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**Mail Stop Issue Fee**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

We are transmitting herewith the following:

- ☒ Authorization to charge Deposit 19-0743 in the amount of \$1510.00 to cover the Large Entity Issue Fee Payment.
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By

/Robert B. Madden/

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**CERTIFICATE UNDER 37 CFR 1.8:** The undersigned hereby certifies that this correspondence is being filed using the USPTO's electronic filing system EFS-Web, and is addressed to: Mail Stop Issue Fee, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on this 25th day of April, 2011.

Jamie A. Ehlers

Name

/ Jamie A. Ehlers /  
Signature